

Section 22 - Coating of Miscellaneous Metal Parts.

1/11/93

a. Applicability.

1. This Section applies to any miscellaneous metal parts and products coating unit.
2. This Section does not apply to the coating of the following metal parts and products that are covered by other Sections of this regulation:
 - i. Automobiles and light-duty trucks.
 - ii. Metal cans.
 - iii. Flat metal sheets and strips in the form of rolls or coils.
 - iv. Magnet wire for use in electrical machinery.
 - v. Metal furniture.
 - vi. Large appliances.
 - vii. Heavy-duty trucks that use electrodeposition (EDP) to apply prime coat, which are covered under paragraphs (c)(4), (f), and (i) of Section 13 of this regulation.
3. This Section does not apply to:
 - i. Exterior of completely assembled aircraft.
 - ii. Exterior of major aircraft subassemblies, if approved by the Department as part of a State Implementation Plan (SIP) revision.
 - iii. Automobile, light-duty truck, and heavy-duty truck refinishing.
 - iv. Customized top coating of automobiles and trucks, if production is less than 35 vehicles per day.
 - v. Exterior of completely assembled marine vessels.
 - vi. Exterior of major marine vessel subassemblies if approved by the Department as part of a SIP revision.

4. The emission limits in this Section do not apply to any coating unit within a facility whose actual emissions without control devices from all miscellaneous metal part and products coating units within the facility are less than 6.8 kilograms (kg) (15 pounds [lb]) of volatile organic compounds (VOCs) per day.
5. An owner or operator of a facility whose emissions are below the applicability threshold in paragraph (a)(4) of this Section shall comply with the certification, recordkeeping, and reporting requirements of paragraph (g)(1) of this Section.
6. Any facility that becomes or is currently subject to the provisions of this Section by exceeding the applicability threshold in paragraph (a)(4) of this Section will remain subject to these provisions even if its emissions later fall below the applicability threshold.
7. Any facility that is currently subject to a state or federal rule promulgated pursuant to the Clean Air Act Amendments of 1977 by exceeding an applicability threshold is and will remain subject to these provisions, even if its throughput or emissions have fallen or later fall below the applicability threshold.

- b. Definitions. As used in this Section, all terms not defined herein shall have the meaning given them in the November 15, 1990 Clean Air Act Amendments (CAAA), or in Section 2 of this regulation.

"Air-dried coating" means a coating that is dried by the use of air or forced warm air at temperatures up to 90°C (194°F).

"Clear coating" means a coating that (1) either lacks color and opacity or is transparent and (2) uses the surface to which it is applied as a reflective base or undertone color.

"Drum" means any cylindrical metal shipping container of 13- to 110-gallon capacity.

"Extreme environmental conditions" means any of the following: the weather all of the time, temperatures frequently above 95°C (203°F), detergents, abrasive and scouring agents, solvents, corrosive atmospheres, or similar environmental conditions.

"Extreme performance coatings" means coatings intended for exposure to extreme environmental conditions.

"Miscellaneous metal parts and products coating unit" means a coating unit in which a coating is applied to any miscellaneous metal parts and products.

"Miscellaneous parts and products" means any metal part or metal product, even if

attached to or combined with a nonmetal part or product. Miscellaneous metal parts and products include, but are not limited to:

1. Large farm machinery (harvesting, fertilizing and planting machines, tractors, combines, etc.).
2. Small farm machinery (lawn and garden tractors, lawn mowers, rototillers, etc.).
3. Small appliances (fans, mixers, blenders, crock pots, dehumidifiers, vacuum cleaners, etc.).
4. Commercial machinery (office equipment, computers and auxiliary equipment, typewriters, calculators, vending machines, etc.).
5. Industrial machinery (pumps, compressors, conveyor components, fans, blowers, transformers, etc.).
6. Fabricated metal products (metal covered doors, frames, etc.).
7. Any other metal part or product that is within one of the following Standard Industrial Classification Codes: Major Group 33 (primary metal industries), Major Group 34 (fabricated metal products), Major Group 35 (nonelectric machinery), Major Group 36 (electrical machinery), Major Group 37 (transportation equipment), Major Group 38 (miscellaneous instruments), and Major Group 39 (miscellaneous manufacturing industries).
8. Application of underbody anti-chip materials (e.g., underbody plastisol) and coating application operations other than prime, primer surfacer, topcoat, and final repair operations at automobile and light-duty truck assembly plants.

"Pail" means any cylindrical metal shipping container of 1- to 12-gallon capacity and constructed of 29-gauge and heavier material.

"Refinishing" means repainting used equipment.

c. Standards.

1. No owner or operator of a miscellaneous metal parts and products coating unit subject to this Section shall cause or allow the application of any coating with VOC content in excess of the emission limits in paragraphs (c)(1)(i) through (c)(1)(v) of this Section.

| | kg/L ^a | lb/gal ^a |
|---|-------------------|---------------------|
| (i) Clear coating | 0.52 | 4.3 |
| (ii) Steel pail and drum interior coating | 0.52 | 4.3 |
| (iii) Air-dried coating | 0.42 | 3.5 |
| (iv) Extreme performance coating | 0.42 | 3.5 |
| (v) All other coatings | 0.36 | 3.0 |

^aVOC content values are expressed in units of mass of VOC(kg, lb) per volume of coating (liter [L], gallon [gal]), excluding water and exempt compounds, as applied.

2. If more than one emission limit in paragraph (c)(1) applies to a specific coating, then the least stringent emission limit shall be applied.
 3. As an alternative to compliance with the emission limits in paragraph (c)(1) of this Section, an owner or operator of a miscellaneous metal parts and products coating unit may meet the requirements of paragraphs (d) or (e) of this Section.
- d. Daily-weighted average limitations. No owner or operator of a miscellaneous metal parts and products coating unit that applies multiple coatings, all of which are subject to the same numerical emission limitation within paragraph (c)(1) above, during the same day (e.g., all coatings used on the unit are subject to 0.42 kg/L [3.5 lb/gal]), shall apply, during any day, coatings on that unit whose daily-weighted average VOC content calculated in accordance with the procedure specified in **Appendix "C"** of this regulation exceeds the coating VOC content limit corresponding to the category of coating used.
- e. Control devices.
1. An owner or operator of a miscellaneous metal parts and products coating unit subject to this Section may comply with this Section by:
 - i. Installing and operating a capture system on that unit.
 - ii. Installing and operating a control device on that unit.
 - iii. Determining for each day the overall emission reduction efficiency needed to demonstrate compliance. The overall emission reduction needed for a day is the lesser of the value calculated according to the procedure in **Appendix "C"** (c) of this regulation for that day or 95 percent.

- iv. Demonstrating each day that the overall emission reduction efficiency achieved for that day, as determined in **Appendix "D" (c)** of this regulation, is greater than or equal to the overall emission reduction efficiency required for that day.
- 2. An owner or operator of a miscellaneous metal parts and products coating unit subject to this Section shall ensure that:
 - i. A capture system and control device are operated at all times that the unit is in operation, and the owner or operator demonstrates compliance with this Section through the applicable coating analysis and capture system and control device efficiency test methods specified in **Appendix "B"**, **Appendix "D"** and **Appendix "E"** of this regulation and in accordance with the capture efficiency test methods in **Appendix "D"**.
 - ii. The control device is equipped with the applicable monitoring equipment specified in **Appendix "D" (b)** of this regulation, and the monitoring equipment is installed, calibrated, operated, and maintained according to the vendor's specifications at all times the control device is in use.
- f. Test methods. The test methods found in **Appendix "A"** through **Appendix "D"** of this regulation shall be used to determine compliance with this Section.
- g. Recordkeeping and reporting.
 - 1. An owner or operator of a miscellaneous metal parts and products coating unit that is exempt from the emission limitations in paragraph (c) of this Section shall comply with the certification, recordkeeping, and reporting requirements in Section 4(b) of this regulation.
 - 2. An owner or operator of a miscellaneous metal parts and products coating unit subject to this Section and complying with paragraph (c) of this Section by the use of complying coatings shall comply with the certification, recordkeeping, and reporting requirements in Section 4(c) of this regulation.
 - 3. An owner or operator of a miscellaneous metal parts and products coating unit subject to this Section and complying with paragraph (d) of this Section by daily-weighted averaging shall comply with the certification, recordkeeping, and

reporting requirements in Section 4(d) of this regulation.

4. An owner or operator of a miscellaneous metal parts and products coating unit subject to this Section and complying with paragraph (e) of this Section by the use of control devices shall comply with the testing, reporting, and recordkeeping requirements in Section 4(e) of this regulation.